\0, \n' \\		PARIB	- FEE(S) I RAI	ADIA	III IAL				
. •	nd this form, toget	her with applicable	fee(s), to: Mail	Mai	il Stop ISSUE nmissioner fo	FEE r Pate	nts	<b>,</b> ⁴	
JUL 2 6 2010 y	<i>\$</i> )			P.O	, Box 1450 xandria, Virg				
	/	·	·	(571	1)-273-2885				
his propriate All further ndicated unless correct naintenance fee notifica	ed below or directed off	or transmitting the ISSU on the Patent, advance or nerwise in Block I, by (a	JE FEE and PUBLIC ders and notification ) specifying a new c	of m	ON FEE (if requalination of the contract of th	ired). B vill be n and/or	locks 1 through 5 sh- nailed to the current of (b) indicating a separ	ould be complete correspondence ad ate "FEE ADDRI	d where idress as ESS" for
	ENCE ADDRESS (Note: Use Bl	ock 1 for any change of address)	·-·	Eagle	a) Transmittal Th	in nartifi	can only be used for cate cannot be used fo	r any other accom	anoniina
papers. Each additional paper, suchave its own certificate of mailing								t or formal drawn	ng, must
48116 7590 04/29/2010  Certificate of Mailing or Transmission  FAY SHARPE/LUCENT  I hereby certify that this Fee(s) Transmittal is being deposited with the States Postal Service with sufficient postage for first class mail in an en									e United
*1228 Euclid Avenue, 5th Floor  The Halle Building  States Postal Service with sufficient postage for first class mail in addressed to the Mail Stop ISSUE FEE address above, or bei transmitted to the USPTO (571) 273-2885, on the date indicated by									envelope facsimile v.
Cleveland, OH					att. (		Jer		tor's name)
				Ľ	Pa	101	Hield	lar (	(Signature)
					<u> </u>	(	7-2	0-10	(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTOR	NEY DOCKET NO.	CONFIRMATION	1 NO.
10/033,338	12/28/2001		Sridhar Gollamud		ND 1 DW D 1 TT		UTZ 2 00551	7159	
TITLE OF INVENTIO COMMUNICATIONS	N: MULTI-CHANNEL	ADAPATIVE QUALIT	Y CONTROL LOO	P FO	OR LINK RATE	ADAPI	ATION IN DATA P	ACKET	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE	UE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DU	E
nonprovisional	NO	\$1510	\$300		\$0 97/26/	/2010 ኮ	\$1810 BELETE2 00000105	07/29/201 122325 1003	
EXAMINER ART UNIT		ART UNIT	CLASS-SUBCLASS	3	01 FC: 92 FC		1510.00 DA 300.00 DA	122000	5555
	RESHTEH N	2611	375-223000						
. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363).			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys  1 Fay Sharpe LLP						
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.									
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.			registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
		A TO BE PRINTED ON	•			:. :.	and God holous the de	aument has been	filed for
recordation as set for		ified below, no assignee pletion of this form is NO						cument has been	ilica toi
(A) NAME OF ASSI	Aicatel-L	ucent USA Inc	(B) RESIDENCE: (C	JITY	and STATE OR	COUNT	KY)		
	Murray H	iii, NJ (US)						_	
Please check the appropr	riate assignee category or	categories (will not be pr	inted on the patent):		Individual C	orporatio	on or other private grou	ip entity U Gov	ernment
a. The following fee(s)	are submitted:	41	o. Payment of Fee(s):		se first reapply a	ny previ	iously paid issue fee s	<b>.</b> .	
Issue Fee Publication Fee (No small entity discount permitted)			Payment by credit card. Form PTO-2038 is attached.						
Advance Order -	# of Copies		The Director is hoverpayment, to	ereby Depo:	authorized to char sit Account Numb	rge the r er	equired fee(s), any def (enclose an	iciency, or credit a extra copy of this	any s form).
	atus (from status indicate		☐ h Annlicant is n	o lone	ger claiming SMA	II FNT	TTY status. See 37 CF	R 1 27(g)(2)	
NOTE: The Issue Fee ar	nd Publication Fee (if req	uired) will not be accepte	d from anyone other t		<u> </u>				r party in
Authorized Signature	D., .	Hille Hille	)		Date		1-20-10	)	
Typed or printed nan	ne talta	Giebler	<del>-</del>		Registration 1	No			_
This collection of informan application. Confider	nation is required by 37 Ontiality is governed by 35	CFR 1.311. The information U.S.C. 122 and 37 CFR to USPTO. Time will vary rden, should be sent to the	on is required to obtain 1.14. This collection depending upon the	n or re is est indiv	retain a benefit by imated to take 12 ridual case. Any co	the publi minutes omment	ic which is to file (and to complete, including s on the amount of time	by the USPTO to g gathering, prepa	process) ring, and complete
his form and/or suggest	tions for reducing this bu	rden, should be sent to th	e Chief Information (	Office	r, U.S. Patent and	Tradem	ark Office, U.S. Depa	rtment of Comme	rce, P.O.

Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## PART B - FEE(S) TRANSMITTAL

PAR		PART B	- FEE(S) TRANS	MITTAL					
Omplete and set	this form, togetl	her with applicable	fee(s), to: Mail M	ail Stop ISSUE FEE					
JUL 2 6 2010	4		P.	ommissioner for Pate O. Box 1450	_				
201 2 0 2010	#J	•		exandria, Virginia 2 71)-273-2885	2313-1450				
NSTRUCTIONS: The ppropriate Analysis of recte and the propriate an	d below or directed oth	or transmitting the ISSU ig the Patent, advance or erwise in Block 1, by (a	JE FEE and PUBLICA ders and notification of specifying a new corr	TION FEE (if required). E maintenance fees will be espondence address; and/or	Blocks 1 through 5 sho mailed to the current c (b) indicating a separa	ould be completed where orrespondence address as ate "FEE ADDRESS" for			
		ock 1 for any change of address)	No Fe	te: A certificate of mailing e(s) Transmittal. This certif	can only be used for	domestic mailings of the			
<b>48116</b>	7590 04/29/	7010	pa	pers. Each additional paper we its own certificate of mai	such as an assignment	or formal drawing, must			
FAY SHARPE		2010	11		of Mailing or Transm				
1228 Euclid Ave	nue, 5th Floor		St ad	ereby certify that this Fee(s ites Postal Service with suf dressed to the Mail Stop insmitted to the USPTO (57	ficient postage for first ISSUE FEE address a	class mail in an envelope bove, or being facsimile			
The Halle Buildi Cleveland, OH 4			1172	nswitted to the USPTO (57	1) 273-2885, on the dat				
Cicvetana, Olivi	7113 1013			atty Gret	olar.	(Depositor's name)			
					Stroll.	(Signature)			
i					(				
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTO		RNEY DOCKET NO.	CONFIRMATION NO.			
10/033,338 TITLE OF INVENTIONS	12/28/2001 N: MULTI-CHANNEL	ADAPATIVE QUALIT	Sridhar Gollamudi FY CONTROL LOOP	FOR LINK RATE ADAP	LUTZ 2 00551 TATION IN DATA P	7159 · ACKET			
APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUI	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE			
nonprovisional	NO	\$1510	\$300	\$0	\$1810	07/29/2010			
EXAM	INER	ART UNIT	CLASS-SUBCLASS						
AGHDAM, F	RESHTEH N	2611	375-225000						
. Change of corresponde CFR 1.363).	ence address or indicatio	n of "Fee Address" (37		patent front page, list	. Fay Sha	arpe LLP			
Change of corresp	Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.  (1) the names of up to 3 registered patent attorneys or agents OR, alternatively,  (2) the name of a single firm (having as a member a								
"Fee Address" ind	ication (or "Fee Address) 2 or more recent) attach	" Indication form ned. Use of a Customer	(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.						
B. ASSIGNEE NAME A	ND RESIDENCE DATA	A TO BE PRINTED ON	THE PATENT (print or	ype)					
PLEASE NOTE: Un	less an assignee is ident	ified below, no assignee	data will appear on the	patent. If an assignee is in assignment.	dentified below, the do	cument has been filed for			
(A) NAME OF ASSI	GNEE		(B) RESIDENCE: (CI'	Y and STATE OR COUNT	rry)				
	Alcatel-Li	ucent USA in: ill, NJ (US)	<b>5.</b>						
Please check the appropri	-	categories (will not be p	rinted on the natent):	Individual Corporat	ion or other private grou	up entity Government			
				case first reapply any pre-					
a. The following fee(s) Issue Fee	are submitted:	4	A check is enclosed			7-2325			
Publication Fee (1	No small entity discount p		Payment by credit of	ard. Form PTO-2038 is atta	ached.	1 -1			
Advance Order -	# of Copies	<del></del>	overpayment, to De	by authorized to charge the posit Account Number	(enclose an	extra copy of this form).			
a. Applicant claim	itus (from status indicate ns SMALL ENTITY stati	us. See 37 CFR 1.27.		onger claiming SMALL EN					
NOTE: The Issue Fee ar nterest as shown by the	nd Publication Fee (if req records of the United Sta	uired) will not be accepte ates Patent and Trademar	ed from anyone other that k Office.	the applicant; a registered					
Authorized Signature	Party	Hielele	1	Date	7-20-10	2			
Typed or printed nam		siebler		Registration No					
This collection of inform an application. Confider submitting the complete this form and/or suggest Box 1450, Alexandria, V Alexandria, Virginia 22:	nation is required by 37 (attaility is governed by 35 and application form to the tions for reducing this buyinginia 22313-1450. DO 313-1450.	CFR 1.311. The information of U.S.C. 122 and 37 CFR USPTO. Time will varurden, should be sent to to NOT SEND FEES OR	on is required to obtain on the control of the completed of the control of the contr	r retain a benefit by the pub estimated to take 12 minute lividual case. Any commen icer, U.S. Patent and Trade TO THIS ADDRESS. SEN	olic which is to file (and is to complete, including its on the amount of tim mark Office, U.S. Depa ID TO: Commissioner for	by the USPTO to process) g gathering, preparing, and the you require to complete rtment of Commerce, P.O. or Patents, P.O. Box 1450,			
Tokundia, viiginia 22.	J.J-1730.		n n		I'd OMB control				

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.